

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)



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Applicant's or agent's file reference UQI 51083WO	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/GB 03/05623	International filing date (day/month/year) 22.12.2003	Priority date (day/month/year) 23.12.2002
International Patent Classification (IPC) or both national classification and IPC C08G18/36		
Applicant IMPERIAL CHEMICAL INDUSTRIES PLC et al.		

1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.
	<input type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of    sheets.
3.	This report contains indications relating to the following items: <ul style="list-style-type: none"> <li>I    <input checked="" type="checkbox"/> Basis of the opinion</li> <li>II   <input type="checkbox"/> Priority</li> <li>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li>IV <input type="checkbox"/> Lack of unity of invention</li> <li>V   <input checked="" type="checkbox"/> Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> <li>VI <input type="checkbox"/> Certain documents cited</li> <li>VII <input type="checkbox"/> Certain defects in the international application</li> <li>VIII <input type="checkbox"/> Certain observations on the international application</li> </ul>

Date of submission of the demand  20.07.2004	Date of completion of this report  10.01.2005
Name and mailing address of the international preliminary examining authority:   European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer  Müller, M  Telephone No. +49 89 2399-8665 <div style="text-align: right;">  </div>

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. **PCT/GB 03/05623**

**I. Basis of the report**

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17))*):

**Description, Pages**

1-12 as originally filed

**Claims, Numbers**

1-22 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
  - ☐ the language of publication of the international application (under Rule 48.3(b)).
  - ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:
- ☐ contained in the international application in written form.
  - ☐ filed together with the international application in computer readable form.
  - ☐ furnished subsequently to this Authority in written form.
  - ☐ furnished subsequently to this Authority in computer readable form.
  - ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
  - ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4. The amendments have resulted in the cancellation of:
- ☐ the description, pages:
  - ☐ the claims, Nos.:
  - ☐ the drawings, sheets:
5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

**INTERNATIONAL PRELIMINARY  
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International application No. **PCT/GB 03/05623**

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**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Yes: Claims	7,11,12
	No: Claims	1-6,8-10,13-22
Inventive step (IS)	Yes: Claims	
	No: Claims	1-22
Industrial applicability (IA)	Yes: Claims	1-22
	No: Claims	

**2. Citations and explanations**

**see separate sheet**

**re item V**

**Cited documents**

D1: US-A-4933232  
D2: WO-A-0125307  
D3: WO-A-02092662  
D4: WO-A-9324551

**Claimed subject-matter**

On the basis of page 2, lines 16 - 19 as well as page 3, lines 5 - 9 as well as claim 11, it is assumed that the adhesive as cited in claim 1 in fact does not comprise a polyisocyanate and a polyol but is the reaction product of said polyisocyanate and polyol. The analysis below will be based on this assumption.

**Novelty (Article 33(2) PCT)**

Example 1 of D1 discloses lignocellulosic disks prepared using, as a binder, a composition being the reaction product of

- (i) polymethylene polyphenyl isocyanate and
- (ii) a dimeric fatty acid (additives Arizona 7002, Crodym MX, Empol-1010 and Empol 1040 in table I).

D1 thus is novelty-destroying for the subject-matter of at least all independent claims 1, and 20 - 22.

Example 1 of D2 discloses a composition being the reaction product of

- (i) a polyester polyol having a molecular weight of 1400 and formed from the dimeric fatty acid Pripol 1013, isophthalic acid and hexane-1,6-diol and
- (ii) isophorone diisocyanate. The resulting product may be used as adhesive (page 1, lines 5 - 11).

Consequently, the subject-matter of claims 1 - 6, 8 - 10 and 13 - 20 lacks novelty over D2.

Example 2 of D3 discloses an adhesive composition being the reaction product of int. al.

- (i) an oligoester prepolymer formed from Pripol 1013 and hexane-1,6-glycol and
- (ii) hexane diisocyanate.

The adhesive can be used to bind wood (page 1, line 12).

Consequently, the subject-matter of at least all independent claims 1 and 20 - 22 lacks novelty over D3.

D4 (page 2, lines 7 - 11 and examples 1 - 4 and 6 - 8) discloses a polyurethane prepolymer being the reaction product of

- (i) a polyester polyol which has been derived from a dimeric fatty acid, and
- (ii) a polyisocyanate.

The resulting product has good substrate adhesion (page 1, lines 11 - 12 and page 4, lines 1 - 2).

Consequently, the subject-matter of at least independent claims 1 and 20 lacks novelty over D4.

**Inventive step (Article 33(3) PCT)**

It is not clear which problem is solved by the subject-matter of the remaining claims 7, 11 and 12 over the cited prior art. The subject-matter of these claims thus at least lacks inventive step over any of D1 - D4.